

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.21**WELDING WITNESS REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WWR-000137**Date Inspected:** 15-Mar-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 800**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Shanghai, China

Witness: **Procedure Qualification Record**
 Welding **NDT**

Welder Qualification **Fracture Critical**
Mechanical Testing, describe:

Index Lot #: B49-007-07**Witness Lot #:****Bridge No:** 34-0006**Component:** Bid: 52, 55 Tower & Girder**Welder:** Jiang Xiao Hu**ID #:** NA**Joint Description:** T-Joint

N/A

WPS ID #: PWPS-B-T-2132-1

N/A

Base Metal: A709-50F-2

N/A

PQR ID #: HP-200713-1

N/A

Thickness: 26mm

N/A

Process: FCAW

N/A

Electrode Spec/Class: AWS A5.20/E71T1-1

N/A

Positions: 2F

N/A

Backing Material: NA

N/A

CWI: Liu Liu

N/A

Average Amps: 300

N/A

AWS Code: AWS D1.5

N/A

Average Volts: 29.5

N/A

Applicable Sec: 5.10

N/A

Travel Speed: 326.45

N/A

Heat Input: 1.64kJ/mm

N/A

Preheat: 110

N/A

Summary of Items Observed:

Caltrans Quality Assurance (QA) Inspector was present as requested to witness the welding of a minimum size multi pass fillet weld, procedure qualification (PQR) HP200713-1, test plate using flux core arc welding (FCAW), electrode classification TWE-711, specification E71T1-1 and diameter 1.4mm. The welding was performed in accordance with AWS D1.5 2002, Section 5.10 requirements. The testing was performed in a closed shop with wind condition less than 10km/hr. The welding appeared to comply with the contract documents. The completed weld test was visually inspected by ZPMC Quality Assurance Inspector, Mr. Liu Liu and accepted for conformance with contract documents.

Summary of Conversations:

As identified within the contents of this report.

Observed welding,testing or results:

is in general conformance with the contract requirements.

is not in conformance with the contract requirements.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural

WELDING WITNESS REPORT

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Materials for your project.

Inspected By: Hasler, Mike

Quality Assurance Inspector

Reviewed By: McClary, David

QA Reviewer